



**NATIONAL CENTER FOR COMBUSTION RESEARCH  
AND DEVELOPMENT (NCCRD)  
INDIAN INSTITUTE OF TECHNOLOGY MADRAS  
CHENNAI – 600036, INDIA**

**Ref. No. ICS/11-12/013/DSTX/TSUN**

**Date: 27 Jan. 2015**

**Due date: 17 Feb. 2015**

**Item name: Optical Table with Vibration Isolated Support - 2 Nos.**

1. Quotations are invited in duplicate for the items shown overleaf (in Annexure I). The quotations duly sealed and superscribed on the envelope with reference no. and due date, should be addressed to the undersigned so as to reach on or before the due date mentioned above.
2. The quotations should be valid for sixty days from the due date and the period of delivery required should also be clearly indicated.
3. The total cost of the equipment in terms of CIP Chennai should be clearly mentioned.
4. Terms of warranty and guarantee should be explicitly mentioned.
5. Packing and delivery charges, customs and clearance duty should be clearly stated.
6. Goods shall not be supplied without an official supply order.
7. Local firms : Quotations should be for free delivery to this institute. If quotations for ex-godown delivery charges should be indicated separately.
8. Firms outside Chennai: Quotations should be for F.O.R. Chennai. If F.O.R. consignor station, freight charges by passenger train / lorry transport must be indicated. If ex-godown, packing, forwarding and freight charges must be indicated.
9. The rate of sales / general taxes and the percentage of such other taxes legally leviable and intended to be claimed should be distinctly shown along with the price quoted. Where this is not done, no claim for sales / general taxes will be admitted at any stage and on any ground whatsoever. The taxes leviable should take into consideration that we are entitled to have Concessional Sales Tax (CST) applicable to non-government educational institutions run with no profit motive for which a concession sales tax certificate will be issued at the time of final settlement of the bill.
10. Payment : Specify the mode of payment and if advanced payment has to be made. Every attempt will be made to make payment within 30 days from the date of receipt of bill / acceptance of goods, whichever is later.
11. IIT Madras is exempt from payment of excise duty and is eligible for concessional rate of customs duty. Necessary certificate will be issued on demand.
12. IIT Madras has the right to accept the whole or any part of the tender or portion of the quantity offered or reject it in full without assigning any reason.
13. In case of any queries/clarifications, please contact Mr. Arithra Chakraborty, IIT Madras, Chennai, Ph. +91-9444576189, E-mail: [aritra.1991@gmail.com](mailto:aritra.1991@gmail.com).
14. The sealed quotation may be sent to

**Prof. S. R. Chakravarthy**

**NCCRD Office**

**No. 201, Rarefied Gas Dynamics Lab (Behind Aerospace Engineering Dept.)**

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**Annexure I**

**Ref. No. ICS/11-12/013/DSTX/TSUN**

**Date: 27 Jan. 2015**

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**Specifications for supply of optical table with vibration isolated support- 2 set**

**Optical Table (2 no.)**

Size: 2 meter x 1 meter

Thickness: 200 mm

Top Skin: 5mm thick magnetic SS

Bottom Skin: 5 mm thick epoxy coated MS

Core: Honeycomb core made of 0.3mm aluminium sheet.

Core Cell size: 6sq.cm (Approx)

Flatness of the top: +/-0.1mm over 300mm x 300mm area (non-cumulative error)

Mounting holes: M6 tapped holes on top on 25mm grid.

Distance of the first row of mounting holes from the edge: 37.5mm.

Nylon cups are fixed under each tapped hole for the protection of the core.

Bonding: By custom semi-solid epoxy.

Side walls: Compressed wooden particle boards to dampen acoustic vibrations.

Side wall finish: Black mat finish by black form sheet.

**Vibration Isolated support for above tabletop (Interconnected legs) (2no)**

The isolated legs are interconnected by pneumatic tubes for air filling. Air can be filled in the inlet valve in one of the isolators, once the air is pumped using a compressor, it is uniformly distributed to all the isolator legs. The pressure of air to be filled is 25-35 PSI. Air filters is provided to supply moist free air to the system to avoid condensation in air. Air is needed to be filled in the legs once in a week.

Isolated Supports isolates the table top from vertical and horizontal disturbances. The system has vertical and horizontal natural frequencies of 4-8 Hz and effectively isolates vibrations in the critical range of 10-50Hz. Portable electric air compressor is supplied along with the system

**To know any further clarification on technical specification.**

**Please contact Mr.Arithra chakraborty. Mobile: 9444576189. E-mail id : [aritra.1991@gmail.com](mailto:aritra.1991@gmail.com)**